



PATENT  
Attorney Docket No. NEX-007

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT(S): Klein et al.  
SERIAL NO.: 10/618,091 GROUP NO.: 3652  
FILING DATE: July 11, 2003 EXAMINER: Not yet assigned  
TITLE: Ultra-Thin Wafer Handling System

Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with the U.S. Patent Office's partial waiver of the requirement under 37 C.F.R. 1.98(a)(2)(i), only copies of the foreign patent documents and non-patent publications are enclosed.

**REMARKS**

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- (1) within three (3) months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. 1.491 in an international application; or before the mailing of the first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- (2) after the period defined in (1) but before the mailing date of a final action or a notice of allowance under 37 C.F.R. 1.311, and
- the requisite Statement is below, OR
- the requisite fee under 37 C.F.R. 1.17(p), namely \$180.00, is included herein, or

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- (3) after the mailing date of a **final action or notice of allowance** but before the payment of the **issue fee**, **AND**
- the requisite Statement is below, **AND**
- the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

**STATEMENT**

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

  
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APPLICANT(S): Klein et al.

SERIAL NO.: 10/618,091

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## U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	2,744,859	05/08/56	Rines			
	A2	3,317,410	05/02/67	Croll et al.			
	A3	3,438,668	04/15/69	Olsson et al.			
	A4	3,523,706	08/11/70	Logue			
	A5	3,539,216	11/10/70	Forcier			
	A6	3,652,442	03/28/72	Powers et al.			
	A7	3,809,642	05/07/74	Bond et al.			
	A8	3,902,615	09/02/75	Levy et al.			
	A9	3,972,424	08/03/76	Levy et al.			
	A10	4,002,254	01/11/77	Olofson			
	A11	4,008,815	02/22/77	Fisk			
	A12	4,118,058	10/03/78	Rahn et al.			
	A13	4,304,641	12/08/81	Grandia et al.			
	A14	4,391,694	07/05/83	Runsten			
	A15	4,405,435	09/20/83	Tateishi et al.			
	A16	4,437,961	03/20/84	Routh et al.			
	A17	4,526,670	07/02/85	Haij			
	A18	4,586,743	05/06/86	Edwards et al.			
	A19	4,588,343	5/13/86	Garrett			
	A20	4,668,365	05/26/87	Foster et al.			
	A21	4,715,921	12/29/87	Maher et al.			
	A22	4,747,928	05/31/98	Takahashi et al.			
	A23	4,749,465	6/7/88	Flint et al.			
	A24	4,785,962	11/22/88	Toshima			
	A25	4,819,167	04/04/89	Cheng et al.			

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## U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A26	4,820,396	04/11/89	de Masi			
	A27	4,842,683	06/27/89	Cheng et al.			
	A28	4,872,947	10/10/89	Wang et al.			
	A29	4,892,753	01/09/90	Wang et al.			
	A30	4,911,597	03/27/90	Maydan et al.			
	A31	4,951,601	08/28/90	Maydan et al.			
	A32	4,962,441	10/09/90	Collins			
	A33	5,000,113	03/19/91	Wang et al.			
	A34	5,000,827	03/19/91	Schuster et al.			
	A35	5,013,385	05/07/91	Maher et al.			
	A36	5,046,909	09/10/91	Murdoch			
	A37	5,080,549	01/14/92	Goodwin et al.			
	A38	5,102,495	04/07/92	Maher et al.			
	A39	5,110,249	5/5/92	Norman			
	A40	5,117,121	05/26/92	Watanabe et al.			
	A41	5,143,593	09/01/92	Ueno et al.			
	A42	5,198,089	03/30/93	Brueggman			
	A43	5,199,483	04/06/93	Bahng			
	A44	5,200,049	04/06/93	Stevenson et al.			
	A45	5,215,619	06/01/93	Cheng et al.			
	A46	5,224,809	07/06/93	Maydan et al.			
	A47	5,227,708	07/13/93	Lowrance			
	A48	5,242,043	09/07/93	Sturm			
	A49	5,269,643	12/14/93	Kodama et al.			
	A50	5,280,983	01/25/94	Maydan et al.			

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<b>EXAM. INIT.</b>		<b>DOCUMENT NUMBER</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUB CLASS</b>	<b>FILING DATE IF APPROPRIATE</b>
	A51	5,292,393	03/08/94	Maydan et al.			
	A52	5,308,431	05/03/94	Maher et al.			
	A53	5,315,473	05/24/94	Collins et al.			
	A54	5,324,155	06/28/94	Goodwin et al.			
	A55	5,330,301	7/19/94	Brancher			
	A56	5,344,542	09/06/94	Maher et al.			
	A57	5,345,999	09/13/94	Hosokawa			
	A58	5,354,715	10/11/94	Wang et al.			
	A59	5,355,066	10/11/94	Lowrance			
	A60	5,360,996	11/01/94	Nulman et al.			
	A61	5,362,526	11/08/94	Wang et al.			
	A62	5,363,872	11/15/94	Lorimer			
	A63	5,370,709	12/06/94	Kobayashi			
	A64	5,371,042	12/06/94	Ong			
	A65	5,377,816	1/3/95	Deligi et al.			
	A66	5,387,067	02/07/95	Grunes			
	A67	5,391,035	02/21/95	Krueger			
	A68	5,399,387	03/21/95	Law et al.			
	A69	5,421,987	06/06/95	Tzanavaras et al.			
	A70	5,425,611	6/20/95	Hughes et al.			
	A71	5,427,666	06/27/95	Mueller et al.			
	A72	5,443,995	08/22/95	Nulman			
	A73	5,444,597	08/22/95	Blake et al.			
	A74	5,447,409	09/05/95	Grunes et al.			
	A75	5,460,689	10/24/95	Raaijmakers et al.			

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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A76	5,469,035	11/21/95	Lowrance			
	A77	5,492,566	02/20/96	Sumnitsch			
	A78	5,512,320	04/30/96	Turner et al.			
	A79	5,513,668	05/07/96	Sumnitsch			
	A80	5,514,258	05/07/96	Brinket et al.			
	A81	5,516,412	05/14/96	Andricacos et al.			
	A82	5,521,120	05/28/96	Nulman et al.			
	A83	5,527,605	06/18/96	Doessel et al.			
	A84	5,534,231	07/09/96	Savas			
	A85	5,538,390	07/23/96	Salzman			
	A86	5,556,147	09/17/96	Somekh et al.			
	A87	5,556,248	09/17/96	Grunes			
	A88	5,563,798	10/08/96	Berken et al.			
	A89	5,566,744	10/22/96	Tepman			
	A90	5,570,994	11/05/96	Somekh et al.			
	A91	5,579,718	12/03/96	Freerks			
	A92	5,597,460	01/28/97	Reynolds			
	A93	5,607,009	03/04/97	Turner et al.			
	A94	5,607,776	03/04/97	Mueller et al.			
	A95	5,618,338	04/08/97	Kurabayashi et al.			
	A96	5,618,388	04/08/97	Seeser et al.			
	A97	5,630,690	05/20/97	Salzman			
	A98	5,630,916	05/20/97	Gerrish et al.			
	A99	5,630,917	05/20/97	Guo			
	A100	5,636,964	06/10/97	Somekh et al.			

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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A101	5,643,366	07/01/97	Somekh et al.			
	A102	5,643,427	07/01/97	Kobayashi et al.			
	A103	5,656,139	08/12/97	Carey et al.			
	A104	5,656,902	08/12/97	Lowrance			
	A105	5,658,442	08/19/97	Van Gogh et al.			
	A106	5,661,913	09/02/97	Kato et al.			
	A107	5,674,786	10/07/97	Turner et al.			
	A108	5,678,980	10/21/97	Grunes et al.			
	A109	5,683,564	11/04/97	Reynolds			
	A110	5,697,427	12/16/97	Ngan et al.			
	A111	5,697,748	12/16/97	Somekh et al.			
	A112	5,697,750	12/16/97	Fishkin et al.			
	A113	5,730,801	03/24/98	Tepman et al.			
	A114	5,740,062	04/14/98	Berken et al.			
	A115	5,746,460	05/05/98	Marohl et al.			
	A116	5,746,897	05/05/98	Heimanson et al.			
	A117	5,747,360	05/05/98	Nulman			
	A118	5,764,012	06/09/98	Lowrance			
	A119	5,780,357	07/14/98	Xu et al.			
	A120	5,784,238	07/21/98	Nering et al.			
	A121	5,788,453	08/04/98	Donde et al.			
	A122	5,788,799	08/04/98	Steger et al.			
	A123	5,789,878	08/04/98	Kroeker et al.			
	A124	5,795,355	08/18/98	Moran			
	A125	5,799,860	09/01/98	Demaray et al.			

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**U.S. PATENT DOCUMENTS**

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A126	5,803,977	09/08/98	Tepman et al.			
	A127	5,810,937	09/22/98	Gupta et al.			
	A128	5,822,171	10/13/98	Shamoulian et al.			
	A129	5,824,197	10/20/98	Tanaka			
	A130	5,833,426	11/10/98	Marohl			
	A131	5,836,736	11/17/98	Thompson et al.			
	A132	5,838,121	11/17/98	Fairbairn et al.			
	A133	5,843,296	12/01/98	Greenspan			
	A134	5,844,195	12/01/98	Fairbairn et al.			
	A135	5,846,883	12/08/98	Moslehi			
	A136	5,851,602	12/22/98	Law et al.			
	A137	5,855,681	01/05/99	Maydan et al.			
	A138	5,861,086	01/19/99	Khurana et al.			
	A139	5,861,197	01/19/99	Law et al.			
	A140	5,865,894	02/02/99	Reynolds			
	A141	5,871,588	02/16/99	Moslehi et al.			
	A142	5,871,811	02/16/99	Wang et al.			
	A143	5,877,086	03/02/99	Aruga			
	A144	5,879,127	03/09/99	Grunes et al.			
	A145	5,882,165	03/16/99	Maydan et al.			
	A146	5,882,168	03/16/99	Thompson et al.			
	A147	5,893,966	04/13/99	Akram et al.			
	A148	5,896,877	04/27/99	Pirker			
	A149	5,905,302	05/18/99	Lane et al.			
	A150	5,932,077	08/03/99	Reynolds			

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## U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A151	5,935,330	08/10/99	Taniguchi			
	A152	5,967,578	10/19/99	Frey			
	A153	5,996,241	12/07/99	Thompson et al.			
	A154	6,017,437	01/25/00	Ting et al.			
	A155	6,022,417	02/08/00	Sumnitsch			
	A156	6,022,465	02/08/00	Ting et al.			
	A157	6,024,526	02/15/00	Slocum et al.			
	A158	6,027,631	02/22/00	Broadbent			
	A159	6,033,540	03/07/00	Kosaki et al.			
	A160	6,048,154	04/11/00	Wytman			
	A161	6,074,544	06/13/00	Reid et al.			
	A162	6,082,950	07/04/00	Altwood et al.			
	A163	6,099,702	08/08/00	Reid et al.			
	A164	6,099,712	08/08/00	Ritzdorf et al.			
	A165	6,103,085	08/15/00	Woo et al.			
	A166	6,103,628	08/15/00	Talich			
	A167	6,139,695	10/31/00	Washburn et al.			
	A168	6,139,703	10/31/00	Hanson et al.			
	A169	6,139,712	10/31/00	Patton et al.			
	A170	6,152,507	11/28/00	Pirker			
	A171	6,156,167	12/05/00	Patton et al.			
	A172	6,159,354	12/12/00	Contolini et al.			
	A173	6,162,344	12/19/00	Reid et al.			
	A174	6,167,893 B1	01/02/01	Taatjes et al.			
	A175	6,174,011 B1	01/16/01	Keigler			

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**U.S. PATENT DOCUMENTS**

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A176	6,179,983 B1	01/30/01	Reid et al.			
	A177	6,193,859 B1	02/27/01	Contolini et al.			
	A178	6,197,181 B1	03/06/01	Chen			
	A179	6,198,616 B1	03/06/01	Dahimene et al.			
	A180	6,214,193 B1	04/10/01	Reid et al.			
	A181	6,215,321 B1	04/10/01	Nakata			
	A182	6,217,272	04/17/01	Felsenthal et al.			
	A183	6,224,670 B1	05/01/01	Ishida			
	A184	6,228,232 B1	05/08/01	Woodruff et al.			
	A185	6,228,233 B1	05/08/01	Lakshmikanthan et al.			
	A186	6,234,788	05/22/01	Lee			
	A187	6,236,555 B1	05/22/01	Leeser			
	A188	6,243,251 B1	06/05/01	Kanno et al.			
	A189	6,254,328 B1	07/03/01	Wytman			
	A190	6,254,742 B1	07/03/01	Hanson et al.			
	A191	6,254,760 B1	07/03/01	Shen et al.			
	A192	6,258,220 B1	07/10/01	Dordi et al.			
	A193	6,258,223 B1	07/10/01	Cheung et al.			
	A194	6,260,894 B1	07/17/01	Minnick et al.			
	A195	6,307,728 B1	10/23/01	Leeser			
	A196	6,328,858	12/11/01	Felsenthal et al.			
	A197	6,396,024	05/28/02	Doughty et al.			
	A198	6,430,468 B1	08/06/02	Tepman et al.			
	A199	6,530,733	03/11/03	Klein et al.			
	A200	6,550,158 B2	04/22/03	Dolev et al.			

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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A201	6,682,288	01/27/04	Klein et al.			
	A202	2002/0140148 A1	10/03/02	Aigner et al.			

#### FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
	B1	0 492 114 A1	07/01/92	EP				N	N (English Language Abstract)
	B2	2 171 119 A	08/20/86	GB				N	Y
	B3	63024632	02/02/88	JP				Y	Y
	B4	64004472	01/09/89	JP				Y	Y
	B5	01123068	05/16/89	JP				Y	Y
	B6	01309961	12/14/89	JP				Y	Y
	B7	03094070	04/18/91	JP				Y	Y
	B8	03227536	08/10/91	JP				N	N (English Language Abstract)
	B9	05171432	07/09/93	JP				Y	Y
	B10	05339723	12/21/93	JP				Y	Y
	B11	06063885	03/08/94	JP				N	N (English Language Abstract)
	B12	06184741	07/05/94	JP				Y	Y

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<b>OTHER ART, JOURNAL ARTICLES, ETC.</b>		
<b>EXAM. INIT.</b>	<b>OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)</b>	
	<b>C1</b>	"Automatic System for Single Wafer Reactive Ion Etching," IBM Technical Disclosure Bulletin, Vol. 33, No. 2, July 1990, pp. 239-242. (3 pages)
	<b>C2</b>	Gaulhofer et al., "Wafer Thinning and Strength Enhancement to Meet Emergency Packaging Requirements," IEMT Europe 2000 Symposium (IEEE/CPMT), April 6-7, 2000, Munich, Germany, Semicon Europe, pp. 21-27.
	<b>C3</b>	Haller et al., "High Frequency Performance of GE High Density Interconnect Modules," IEEE Transactions on Components, Hybrids, and Manufacturing Technology, Vol. 16, No. 1, February 15, 1993, pp. 1-5.
	<b>C4</b>	Hendrix et al., "Improvements in Yield by Eliminating Backgrind Defects and Providing Stress Relief with Wet Chemical Etching," <a href="http://www.hologenix.com/Article1.htm">http://www.hologenix.com/Article1.htm</a> , printed June 30, 2003, 6 pages.
	<b>C5</b>	Young et al., "Thermal Modeling and Mechanical Analysis of Very Thin Silicon Chips for Conformal Electronic Systems," University of Arkansas, Fayetteville, AZ, 8 pages.

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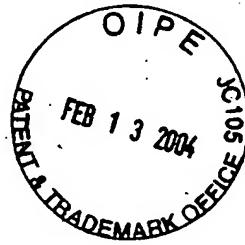
The "RECEIVED" stamp of the Patent Office imprinted hereon acknowledges the filing of:  
Transmittal Form (1 pg.); Fee Transmittal Form (1 pg.); Supplemental Application Data Sheet (3 pgs.); Copy of the Notice to File Missing Parts of Nonprovisional Application (2 pgs.); Copy of executed Declaration and Power of Attorney (3 pgs.); Information Disclosure Statement (2 pgs.); Form PTO-1449 (10 pgs.); Copies of IDS Citations (B1-B12; C1-C5); Check in the amount of \$1,007.00; and this return receipt postcard, all mailed under Certificate of First Class Mailing.

Name of Applicant: Klein et al.

Intf. or Serial Number: 10/618,091

Atty: JACapraro/SKWitonsky

Date: February 11, 2004



3014291

Atty Docket No. NEX-007  
(54071/015)

The "RECEIVED" stamp of the Patent Office imprinted hereon  
acknowledges the filing of:

Transmittal Form (1 pg.); First Supplemental Information Disclosure  
Statement (2 pgs.); Form PTO-1449 (1 pg.); Copy of Revocation of  
Power of Attorney with New Power of Attorney and Change of  
Correspondence Address, Appendices A and B, filed on March 13, 2004  
(2 pgs.); and this return receipt postcard all mailed under Certificate of  
First Class Mailing Under 37 C.F.R. § 1.8.

Applicant: Klein et al.

Serial No.: 10/618,091

Attorney: Gerald E. Worth

Date: June 19, 2004

3333

PATENT  
Attorney Docket No. NEX-007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Klein et al.

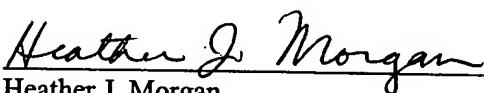
SERIAL NO.: 10/618,091 GROUP NO.: 3652

FILING DATE: July 11, 2003 EXAMINER: Not yet assigned

TITLE: Ultra-Thin Wafer Handling System

***CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8***

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 19th day of July, 2004.

  
Heather J. Morgan

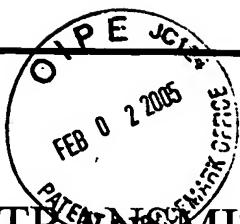
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith are:

1. Transmittal Form (1 pg.);
2. First Supplemental Information Disclosure Statement (2 pgs.);
3. Form PTO-1449 (1 pg.);
4. Copy of Revocation of Power of Attorney with New Power of Attorney and Change of Correspondence Address, Appendices A and B, filed on March 13, 2004 (2 pgs.); and
5. A return receipt postcard.

**TRANSMITTAL  
FORM**



Application Serial Number	10/618,091
Filing Date	July 11, 2003
First Named Inventor	Klein
Group Art Unit	3652
Examiner Name	Not yet assigned
Attorney Docket No.	NEX-007
Patent No.	Not applicable
Issue Date	Not applicable

**ENCLOSURES (check all that apply)**

<input type="checkbox"/> Fee Transmittal Form <ul style="list-style-type: none"> <li><input type="checkbox"/> Check Attached</li> <li><input type="checkbox"/> Copy of Fee Transmittal Form</li> </ul>	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application (PTO-1553) <ul style="list-style-type: none"> <li><input type="checkbox"/> Formal Drawing(s)</li> </ul>	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences <ul style="list-style-type: none"> <li><input type="checkbox"/> Appeal Brief (in triplicate)</li> </ul>
<input type="checkbox"/> Amendment/Response <ul style="list-style-type: none"> <li><input type="checkbox"/> Preliminary</li> <li><input type="checkbox"/> After Final</li> <li><input type="checkbox"/> Affidavits/declaration(s)</li> <li><input type="checkbox"/> Letter to Official Draftsperson including Drawings</li> <li>[Total Sheets _____]</li> </ul>	<input type="checkbox"/> Request For Continued Examination (RCE) Transmittal <ul style="list-style-type: none"> <li><input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)</li> </ul>	<input type="checkbox"/> Status Inquiry <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Return Receipt Postcard</li> <li><input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8</li> </ul>
<input type="checkbox"/> Petition for One Month Extension of Time	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8
<input checked="" type="checkbox"/> First Supplemental Information Disclosure Statement <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Form PTO-1449</li> <li><input type="checkbox"/> Copies of IDS Citations</li> </ul>	<input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application <ul style="list-style-type: none"> <li><input type="checkbox"/> Small Entity Statement</li> </ul>	<input type="checkbox"/> Additional Enclosure(s) (please identify below) <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Copy of Revocation of Power of Attorney with New Power of Attorney and Change of Correspondence Address , Appendices A and B (filed on March 13, 2004)</li> </ul>
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD(s) for large table or computer program	
<input type="checkbox"/> Sequence Listing submission <ul style="list-style-type: none"> <li><input type="checkbox"/> Paper Copy/CD</li> <li><input type="checkbox"/> Computer Readable Copy</li> <li><input type="checkbox"/> Statement verifying identity of above</li> </ul>	<input type="checkbox"/> Amendment After Allowance <ul style="list-style-type: none"> <li><input type="checkbox"/> Request for Certificate of Correction</li> <li><input type="checkbox"/> Certificate of Correction (in duplicate)</li> </ul>	

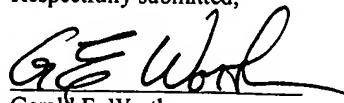
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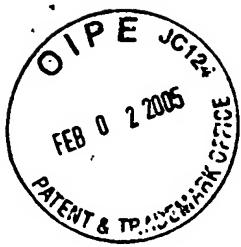
**SIGNATURE BLOCK**

Direct all correspondence to: Patent Administrator  
Proskauer Rose LLP  
One International Place  
14<sup>th</sup> Floor  
Boston, MA 02110-2600  
Tel. No.: (617) 526-9600  
Fax No.: (617) 526.9899

Date: June 19, 2004  
Reg. No.: 45,238  
Tel. No.: (617) 526-9626  
Fax No.: (617) 526-9899

Respectfully submitted,

  
Gerald E. Worth  
Attorney for the Applicant(s)  
Proskauer Rose LLP  
One International Place  
14<sup>th</sup> Floor  
Boston, MA 02110-2600



PATENT  
Attorney Docket No. NEX-007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Klein et al.

SERIAL NO.: 10/618,091 GROUP NO.: 3652

FILING DATE: November 5, 2001 EXAMINER: Not yet assigned

TITLE: Ultra-Thin Wafer Handling System

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make or record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with the U.S. Patent Office's partial waiver of the requirement under 37 C.F.R 1.98(a)(2)(i), copies of the cited U.S. patents are not enclosed.

**REMARKS**

In accordance with the provisions of 37 C.F.R., this statement is being filed (check one)

- (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
  - the requisite Statement is below, **OR**
  - the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

First Supplemental Information Disclosure Statement

Serial No. 10/618,091

Page 2 of 2

(3) after the mailing date of a final action or notice of allowance but before the payment of the issue fee, AND

- the requisite Statement is below, AND
- the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein.

It is respectfully requested that each patent and publication listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

**STATEMENT**

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,



Gerald E. Worth

Attorney for the Applicant(s)

Proskauer Rose LLP

One International Place

14<sup>th</sup> Floor

Boston, MA 02110

Date: July 19, 2004

Reg. No.: 45,238

Tel. No.: (617) 526-9626

Fax No. (617) 526-9899



FORM

FIRST SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT

ATTY DOCKET NO.: NEX-007

APPLICANTS: Klein et al.

SERIAL NO.: 10/618,091

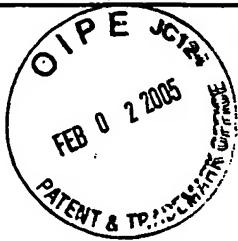
FILING DATE: July 19, 2004

GROUP: 3652

## U.S. PATENT DOCUMENTS

EXAM INIT.		DOCUMENT NO.	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A203	6,746,565	06/08/04	Bleck et al.			
	A204	6,749,391	06/15/04	Woodruff et al.			
EXAMINER				DATE CONSIDERED			

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**



**REVOCATION OF POWER OF  
ATTORNEY WITH  
NEW POWER OF ATTORNEY  
AND  
CHANGE OF CORRESPONDENCE ADDRESS**

As assignee of record of the entire interest of the patent applications identified in Appendix A and the patents identified in Appendix B, all powers of attorney previously given are hereby revoked, and the following attorneys and/or agents are hereby appointed to prosecute and transact all business in the U.S. Patent and Trademark Office connected therewith.

Steven M. Bauer	Reg. No.: 31,481	Sergey Kolmykov	Reg. No.: 47,713
Jennifer A. Camacho	Reg. No.: 43,526	Tiffany A. Levato	Reg. No.: 50,160
Joseph A. Capraro, Jr.	Reg. No.: 36,471	Robert S. Mayer	Reg. No.: 38,544
Mark A. Catan	Reg. No.: 38,720	Silvana M. Merlino	Reg. No.: 44,237
Christopher H. Chung	Reg. No.: 50,351	Alexander Migirov	Reg. No.: 53,326
David J. Cerveny	Reg. No.: 44,600	Kristen H. Neuman	Reg. No.: 35,530
Anthony C. Coles	Reg. No.: 34,139	Jeremy P. Ozcek	Reg. No.: 50,794
Alan Federbush	Reg. No.: 37,619	Kenneth Rubenstein	Reg. No.: 30,586
Nolan Goldberg	Reg. No.: 54,126	Silvia Salvadori	Reg. No.: 48,265
Louis Greco	Reg. No.: 41,799	James H. Shalek	Reg. No.: 29,749
Charles Guttman	Reg. No.: 29,161	John C. Stellabotte	Reg. No.: 47,969
Tzvi Hirshaut	Reg. No.: 38,732	Baldassare Vinti	Reg. No.: 43,970
Evan L. Kahn	Reg. No.: 35,912	Gerald E. Worth	Reg. No.: 45,238

Assignee also hereby grants additional Power of Attorney to the attorneys and/or agents named above to file and prosecute foreign national patent applications in any and all countries of the world, regional patent applications under the European Patent Convention and/or international applications under the Patent Cooperation Treaty based upon the patent applications identified in Appendix A, including a power to meet all designated office requirements for designated states.

All future correspondence should be sent to :

Proskauer Rose LLP  
One International Place, 14<sup>th</sup> Floor  
Boston, MA 02110-2600.

Please assign PTO Customer Number 42532 to all of the patent applications identified in Appendix A and the patents identified in Appendix B.

The assignee of record of the entire interest of the patent applications identified in Appendix A and the patents identified in Appendix B is NEXX Systems Packaging, LLC, organized and existing under the laws of the state of Delaware, having a usual place of business at 5 Suburban Park Drive, Billerica, MA 01821.

**SIGNATURE of Assignee of Record**

Name	Richard S. Post, Ph.D.
Title	CEO and Chairman
Signature	<i>Richard S. Post</i>
Date	<i>April 7, 2004</i>

## APPENDIX A

<i>Atty Docket No.</i>	<i>U.S. Serial No.</i>	<i>Filing Date</i>	<i>Recordation Information</i>
ASX-054C (NEX-006C)	09/917,224	07/27/01	<ul style="list-style-type: none"><li>• Inventors to Applied Science and Technology, Inc. (Recorded 01/16/02 at Reel No. 012477, Frame No. 0810)</li><li>• Applied Science and Technology, Inc. to NEXX Systems Packaging, LLC (Recorded 10/01/01 at Reel No. 012211, Frame 0008)</li></ul>
NEX-007	10/618,091	07/11/03	<ul style="list-style-type: none"><li>• Inventors to NEXX Systems Packaging, LLC (Submitted 02/11/04, a copy of the recordation is attached)</li></ul>
NEX-008PR	60/513,761	10/22/03	<ul style="list-style-type: none"><li>• Inventors to NEXX Systems Packaging, LLC (Submitted 01/21/04, a copy of the recordation is attached)</li></ul>

## APPENDIX B

<i>Atty. Docket No.</i>	<i>U.S. Patent No.</i>	<i>Date of Patent</i>	<i>Recordation Information</i>
ASX-024 (NEX-001)	6,217,272	04/17/01	<ul style="list-style-type: none"> <li>• Inventors to Applied Science and Technology, Inc. (Recorded 09/14/00 at Reel No. 011093, Frame No. 0520)</li> <li>• Inventors to Applied Science and Technology (Recorded 09/10/01 at Reel No. 012362, Frame No. 0245)</li> <li>• Applied Science and Technology to NEXX Systems Packaging, LLC (Recorded 10/01/01 at Reel No. 012211, Frame 0008)</li> </ul>
ASX-025 (NEX-002)	6,234,788	05/22/01	<ul style="list-style-type: none"> <li>• Inventor to Applied Science and Technology, Inc. (Recorded 04/03/00 at Reel No. 010720, Frame No. 0453)</li> <li>• Inventor to Applied Science and Technology, Inc. (Recorded 09/10/01 at Reel No. 012148, Frame No. 0027)</li> <li>• Applied Science and Technology, Inc. to NEXX Systems Packaging, LLC (Recorded 10/01/01 at Reel No. 012211, Frame 0008)</li> </ul>
ASX-026 (NEX-003)	6,328,858	12/11/01	<ul style="list-style-type: none"> <li>• Inventors to Applied Science and Technology, Inc. (Recorded 09/14/00 at Reel No. 011094, Frame No. 0484)</li> <li>• Inventors to Applied Science and Technology, Inc. (Recorded 09/10/01 at Reel No. 012146, Frame No. 0306)</li> <li>• Applied Science and Technology, Inc. to NEXX Systems Packaging, LLC (Recorded 10/01/01 at Reel No. 012211, Frame 0008)</li> </ul>
BPLAQ.008 (NEX-005)	6,396,024	05/28/02	<ul style="list-style-type: none"> <li>• Inventors to Applied Science and Technology, Inc. (Recorded 09/29/00 at reel No. 011160, Frame No. 0938)</li> <li>• Applied Science and Technology, Inc. to NEXX Systems Packaging, LLC (Recorded 10/01/01 at Reel No. 012211, Frame 0008)</li> </ul>
ASX-054A (NEX-006A)	6,530,733	03/11/03	<ul style="list-style-type: none"> <li>• Inventors to Applied Science and Technology, Inc. (Recorded 01/03/02 at Reel No. 012424, Frame No. 0407)</li> <li>• Applied Science and Technology, Inc. to NEXX Systems Packaging, LLC (Recorded 10/01/01 at Reel No. 012211, Frame 0008)</li> </ul>
ASX-054B (NEX-006B)	6,682,288	01/27/04	<ul style="list-style-type: none"> <li>• Inventors to Applied Science and Technology, Inc. (Recorded 01/04/02 at Reel No. 012430, Frame No. 0656)</li> <li>• Applied Science and Technology, Inc. to NEXX Systems Packaging, LLC (Recorded 10/01/01 at Reel No. 012211, Frame 0008)</li> </ul>



Atty Docket No. NEX-007  
(54071/015)

The "RECEIVED" stamp of the Patent Office imprinted hereon  
acknowledges the filing of:

Transmittal Form (1 pg.); First Supplemental Information Disclosure  
Statement (2 pgs.); Form PTO-1449 (1 pg.); Copy of Revocation of  
Power of Attorney with New Power of Attorney and Change of  
Correspondence Address, Appendices A and B, filed on March 13, 2004  
(2 pgs.); and this return receipt postcard all mailed under Certificate of  
First Class Mailing Under 37 C.F.R. § 1.8.

Applicant: Klein et al.  
Serial No.: 10/618,091  
Attorney: Gerald E. Worth  
Date: June 19, 2004

3333





## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/618,091	07/11/2003	Martin P. Klein	NEX-007

## CONFIRMATION NO. 3818

021323  
 TESTA, HURWITZ & THIBEAULT, LLP  
 HIGH STREET TOWER  
 125 HIGH STREET  
 BOSTON, MA 02110



\*OC000000014646410\*

Date Mailed: 12/02/2004

## NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

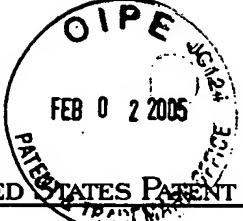
This is in response to the Power of Attorney filed 07/21/2004.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

42532  
 PROSKAUER ROSE LLP  
 ONE INTERNATIONAL PLACE 14TH FL  
 BOSTON, MA 02110

JOHN S DILL  
 OIPE (703) 306-3477

NEW ATTORNEY/AGENT COPY



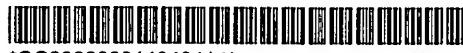
**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/618,091	07/11/2003	Martin P. Klein	NEX-007

**CONFIRMATION NO. 3818**

42532  
PROSKAUER ROSE LLP  
ONE INTERNATIONAL PLACE 14TH FL  
BOSTON, MA 02110



\*OC000000014646414\*

Date Mailed: 12/02/2004

**NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 07/21/2004.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

---

JOHN S DILL  
O I P E (703) 306-3477

ATTORNEY/APPLICANT COPY